Index of Subjects

Age, milk composition, 407

Babies, milk foods, folic acid activity, 85
Bacillus subtilis, spore death-rate, hydrogen peroxide, different concentrations, temperatures, 423
Bacterial infection, cell counts, milk, 59
Biuret, in concentrates, milk yield and composition, 191
rumen fluid, composition, 203

Casein, coagulation, role of lysine residues, 13
interaction with detergents, 439
micelles, ultrastructure, fresh, acidified milk, 1
viscosity index, adhesive strength, seasonal variation, 25
Caseinates, viscosity, factors affecting, 31
Cheddar cheese, neutral volatile components, made aseptically, with and without starter culture, 237
Cheesemaking, concentrating milk and fat retention of curd, 135
Concentrates, containing, biuret and urea, milk yield and composition, 191
rumen fluid, composition, 203
fatty acids, milk fat yield and composition, 353, 361
tallow, cottonseed oil, milk fat yield and composition, 223, 343
Cottonseed oil, in concentrates, milk fat yield and composition, 223, 343
Creams, UHT, lipid oxidation, assessment, 429

Dairy products, *see also individual products*
fat soluble vitamins, content (review), 149
Detergents, interaction with caseins, 439
Digestibility, fatty acids, fed sheep, 373
Disease, *see* **Mastitis**
Dry period, infection, udder, subsequent milk yield, 287

Fatty acids, in concentrates, digestibility coefficients, sheep, 371
milk fat yield and composition, 353, 361
milk fat, feeding concentrates containing, fatty acids, 353, 361
tallow, cottonseed oil, 223, 343
Flavour, Cheddar cheese, analyses, neutral volatile components, 237
oxidized, dairy products, 49
UHT creams, 429
Folic acid, activity, milk foods, babies, 85

Gel electrophoresis, detection, cow's milk in goat's milk, 383
Gel filtration, estimation, interaction, caseins with detergents, 439
Genetic variants, breed distribution, milk proteins (review), 447
Goats, milk, detection of cow's milk, gel electrophoresis, 383

Heat treatment, milk, deposits (review), 317
Hydrogen peroxide, at different concentrations, temperatures, death-rate, spores, *Bacillus subtilis,* 423

Lactation, induced, prediction of dairy performance, 331
Lactose, content, milk, factors affecting, 91, 107
Lipids, oxidation, model systems, copper, ascorbic acid added, 49
UHT creams, 429
Lipolysis, milk, modified acid degree value test, 19

Mastitis, subclinical, detection by electrical means, 213
Milk, abnormal, detection by electrical means, 213
cell counts, bacterial infection, 59
electronic, after chemical dispersal, milk fat, 295
concentration, fat retention by curd, 135
lipolytic rancidity, modified acid degree value test, 19
removal of fission products, pilot plant, 257, 269
renneted, coagulation, factors affecting, 71
Milk composition, feeding concentrates containing, biuret, urea, 191
fatty acids, 353, 361
tallow, cottonseed oil, 223, 343
folic acid activity, 85
lactose content, factors affecting, 91, 107
prediction, induced lactation, 331
vitamins, fat soluble, content (review), 149
young, old cows, 407
Milk deposits, on heat treatment (review), 317
Milk fat, content, composite milks, errors in testing, 171
estimation by Milko-tester, 181
herd bulk milk, sampling, testing, biological variances, 291
fatty acids, milk, feeding concentrates containing, fatty acids, 353, 361
tallow, cottonseed oil, 223, 343
lipids, oxidation, model systems, copper, ascorbic acid added, 49
UHT creams, 429
Milk fat yield, feeding concentrates containing, fatty acids, 353, 361
tallow, cottonseed oil, 223, 343
Milk proteins, genetic variants, breed distribution (review), 447
Milk serum, anti-O chaining titre, *Salmonella pullorum*-H, 7

Milk yield, after bacterial infection, udder, dry period, 287
feeding concentrates containing, biuret, urea, 191
fatty acids, 353, 361
prediction, induced lactation, 331
Milking, udder infection, 127, 399
interval, oxytocin injections, residual milk, ewes, 377
Milking machines, laboratory soiling, 247
vacuum in teatcup liner, factors affecting, 303
Milko-tester, estimation of fat content, composite milks, 181

Nutritive value, fat soluble vitamins, milk, milk products (review), 149

Oestrogen, induced lactation, prediction of dairy performance, 331
Oxidation, lipids, model systems, 49
UHT creams, 429
Oxytocin, injections, milking interval, residual milk, ewes, 377
Pseudomonas spp., growth,proteinase production, varying temperature, nutrition, 385
P. aeruginosa, proteinases, properties, 395

Radioactive nuclides, removal from milk, pilot plant, 257, 269
Rancidity, lipolytic, milk, modified acid degree value test, 19
Rennet, coagulation, milk, factors affecting, 71
curd, fat retention, effect of concentrating milk, 135
Rennin, coagulation, casein, role of lysine residues, 13
Residual milk, ewes, length of milking interval, oxytocin injections, 377
Rumen, fluid, composition, feeding concentrates containing biuret, urea, 203
fermentation pattern, feeding concentrates containing fatty acids, 353, 361

***Salmonella pullorum*-H,** anti-O chaining titre, milk serum, 7
Sheep, dietary fatty acids, digestibility coefficients, 371
residual milk, length of milking interval, oxytocin injections, 377
Staphylococci, infection, udder, dry period, subsequent milk yield, 287
milked, unmilked, 127
Staphylococcus aureus, passage through teat canal, 399
Streptococci, infection, udder, dry period, subsequent milk yield, 287
milked, unmilked, 127
Streptococcus cremoris, iron, vanadium requirements, 67
Str. lactis, iron, vanadium requirements, 67

Tallow, in concentrates, milk fat yield and composition, 223

Udder, infection, effect of milking, 127, 399
dry period, subsequent milk yield, 287
teat canal, passage of staphylococci, 399
Ultracentrifugation, estimation, interaction, caseins with detergents, 439
Urea, in concentrates, milk yield and composition, 191
rumen fluid, composition, 203

Vitamins, *see also* **Folic acid**
fat soluble, content, milk, milk products (review), 149

Index of Authors

Akam, D. N., 303
Aschaffenburg, R., 383, 447

Bačić, Branca, 247
Barclay, Grace W., 19
Blackburn, P. S., 59
Bryant, D. T. W., 257, 269
Burnett, J., 71
Burton, H., 317

Calapaj, G. G., 1
Castle, M. E., 191
Cheeseman, G. C., 135, 439
Clegg, L. F. L., 247
Clough, P. A. 303
Coombe, R. A., 213
Cousins, Christina M., 247
Craker, Barbara A., 13

Dance, Janet E., 383
Dodd, F. H., 91, 107, 127, 287
Doelle, H. W., 385, 395
Dolby, R. M., 25
Downey, W. K., 429
Drysdale, A. D., 191

Elliott, J. A., 237
El-Negoumy, A. M., 49
Emmons, D. B., 237

Forbes, D., 399
Ford, J. E., 85

Glascock, R. F., 257, 269
Greatrix, G. R., 213

Hall, H. S., 257
Hayes, J. F., 31
Hayward, A. C., 385
Higgs, T. M., 127
Hill, R. D., 13
Howsam, Shirlie G., 237
Hunter, A. C., 19

Juffs, H. S., 385, 395

Kano, Y., 331
Kashiwagi, K., 331
Katsuki, T., 331
Ku, P. S., 49

Lindgren, B., 423

Mabbitt, L. A., 135
McDowell, A. K. R., 171, 181
McGugan, W. A., 237
Miya, T., 331
Moore, J. H., 223, 343, 353, 361, 371
Morag, M., 377
Morita, K., 331
Muller, L. L., 31

Naito, M., 331
Neave, F. K., 127, 287
Nemoto, H., 331

O'Keeffe, M. G., 291
Okubo, E., 331
Oliver, J., 127
Oram, J. D., 67

Phipps, L. W., 295
Porter, R. M., 7

Quayle, J. C., 213

Reiter, B., 67, 237
Rook, J. A. F., 91, 107

Sakurai, M., 331
Scott, K. J., 85
Scott Blair, G. W., 71
Sharpe, M. Elisabeth, 237
Smith, A., 287
Southby, Pamela M., 31
Southward, C. R., 25
Steele, W., 223, 343, 353, 361, 371
Suffolk, S. F., 257
Swartling, P., 423

Thiel, C. C., 303
Thompson, S. Y., 149
Tuszyński, W., 71

Waite, R., 191, 203, 407
Walsh, J. P., 91, 107
Watson, J. N., 191
Westgarth, D. R., 303
Wilson, Agnes G., 203
Wilson, Judith M., 19